

Standard State Hazard Mitigation Plan Review and Approval Status

State Point of Contact:	Address:
Title:	
Agency:	
Phone Number:	E-Mail:

FEMA Reviewer:	Title:	Date:
Date Received in FEMA Region [Insert #]		
Plan Not Approved		
Plan Approved		
Date Approved		

Note: Sharon Loper, FEMA Region 10 Reviewer, did not have all of the Appendices at her disposal during this review. Her primary focus was to review additional material provided to her during a mid March meeting. The focus has been to expand the descriptions of processes currently in use such as the SHMAC prioritizing HMGP proposals after a disaster.

STANDARD STATE HAZARD MITIGATION PLAN REVIEW CROSSWALK

FEMA REGION X

State: Alaska

Date of Plan: March 2004

STANDARD STATE HAZARD MITIGATION PLAN SUMMARY CROSSWALK

The plan cannot be approved if the plan has not been formally adopted.

Each requirement includes separate elements. All elements of the requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a score of "Satisfactory." Elements of each requirement are listed on the following pages of the Plan Review Crosswalk. A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing. Reviewer's comments must be provided for requirements receiving a "Needs Improvement" score.

SCORING SYSTEM

Please check one of the following for each requirement.

N – Needs Improvement: The plan does not meet the minimum for the requirement.
Reviewer's comments must be provided.

S – Satisfactory: The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

Prerequisite	NOT MET	MET
Adoption by the State: §201.4(c)(6) and §201.4(c)(7)	X	
Planning Process	N	S
Documentation of the Planning Process: §201.4(c)(1)	X	
Coordination Among Agencies: §201.4(b)	X	
Program Integration: §201.4(b)	X	
Risk Assessment	N	S
Identifying Hazards: §201.4(c)(2)(i)		X
Profiling Hazards: §201.4(c)(2)(i)	X	
Assessing Vulnerability by Jurisdiction: §201.4(c)(2)(ii)	X	
Assessing Vulnerability of State Facilities: §201.4(c)(2)(ii)	X	
Estimating Potential Losses by Jurisdiction: §201.4(c)(2)(iii)	X	
Estimating Potential Losses of State Facilities: §201.4(c)(2)(iii)	X	

Mitigation Strategy

Hazard Mitigation Goals: §201.4(c)(3)(i)

State Capability Assessment: §201.4(c)(3)(ii)

Local Capability Assessment: §201.4(c)(3)(ii)

Mitigation Actions: §201.4(c)(3)(iii)

Funding Sources: §201.4(c)(3)(iv)

N	S
	X
X	
X	
X	
X	

Coordination of Local Mitigation Planning

Local Funding and Technical Assistance: §201.4(c)(4)(i)

Local Plan Integration: §201.4(c)(4)(ii)

Prioritizing Local Assistance: §201.4(c)(4)(iii)

N	S
X	
X	
X	

Plan Maintenance Process

Monitoring, Evaluating, and Updating the Plan: §201.4(c)(5)(i)

Monitoring Progress of Mitigation Activities: §201.4(c)(5)(ii) and (iii)

N	S
X	
X	

STANDARD STATE HAZARD MITIGATION PLAN APPROVAL STATUS

PLAN NOT APPROVED

PLAN APPROVED

X

See Reviewer's Comments

4/6/04 – preliminary review of sections requested be state.

PREREQUISITE

Adoption by the State

Requirement §201.4(c)(6): The plan **must** be formally adopted by the State prior to submittal to [FEMA] for final review and approval.

Requirement §201.4(c)(7): The plan **must** include assurances that the State will comply with all applicable Federal statutes and regulations in effect with respect to the periods for which it receives grant funding, in compliance with 44 CFR 13.11(c). The State will amend its plan whenever necessary to reflect changes in State or Federal laws and statutes as required in 44 CFR 13.11(d).

Element	Location	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Has the State formally adopted the plan?	Section 2	No	X	
B. Does the plan provide assurances that the State will comply with all applicable Federal statutes and regulations during the periods for which it receives grant funding, in compliance with 44 CFR 13.11(c), and will amend its plan whenever necessary to reflect changes in State or Federal laws and statutes as required in 44 CFR 13.11(d)?	Added a planning flowchart in Section 2	No assurances.	X	
SUMMARY SCORE			X	

PLANNING PROCESS: §201.4(b): *An effective planning process is essential in developing and maintaining a good plan.*

Documentation of the Planning Process

Requirement §201.4(c)(1): *[The State plan **must** include a] description of the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how other agencies participated.*

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan provide a narrative description of how the plan was prepared?	Section 2 Expanded the Description under SHMAC	Not enough information provided to describe how the 322 plan was prepared. Please elaborate on the process. Good addition of the flow chart. The focus of the flow chart is on action prior to development of the Section 322 SHMP and on future updates. Only one box relates to the planning process for the SHMP currently under development. Either add boxes related to current development or include information in narrative in section 2.	X	
B. Does the plan indicate who was involved in the planning process?	Section 2 Appendix 11	SHMAC identified as being involved in the planning process. The names of the state agencies, local entities, and other federal agencies must be identified (at a minimum the key participants).	X	
C. Does the plan indicate how other agencies participated in the planning process?	Section 2 Expanded the Description under SHMAC	SHMAC is identified, but their role as participants in the process is not defined. Do they attend meetings, contribute information, review draft plans? SHMAC is identified as having a role in project selection. This seems to overlap the role of the DPC. The difference in their roles must be clarified. Does SHMAC identify projects for inclusion in the plan and DPC identify projects for actual funding?	X	
SUMMARY SCORE			X	

Coordination Among Agencies

Requirement §201.4(b): *The [State] mitigation planning process **should** include coordination with other State agencies, appropriate Federal agencies, interested groups, and*

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan describe how Federal and State agencies were involved in the planning process?	Section 2	<p><i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i></p> <p>Plan describes SHMAC and DPC roles. The specific other state agencies on the SHMAC must be identified (at least the key entities coordinated with). Additional details are needed to identify how other State agencies and appropriate Federal agencies were coordinated within the planning process. What did their coordination role involve?</p>	X	
B. Does the plan describe how interested groups (e.g., businesses, non-profit organizations, and other interested parties) were involved in the planning process?	Section 2	<p><i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i></p> <p>Information not included in plan.</p>	X	
SUMMARY SCORE			X	

Program Integration

Requirement §201.4(b): *[The State mitigation planning process **should**] be integrated to the extent possible with other ongoing State planning efforts as well as other FEMA mitigation programs and initiatives.*

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan describe how the State mitigation planning process is integrated with other ongoing State planning efforts?		<p><i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i></p> <p>Other state planning efforts not identified.</p>	X	
B. Does the plan describe how the State mitigation planning process is integrated with FEMA mitigation programs and initiatives?		<p><i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i></p> <p>Other state mitigation planning efforts not integrated.</p>	X	
SUMMARY SCORE			X	

RISK ASSESSMENT: §201.4(c)(2): *[The State plan must include a risk assessment] that provides the factual basis for activities proposed in the strategy portion of the mitigation plan. Statewide risk assessments must characterize and analyze natural hazards and risks to provide a statewide overview. This overview will allow the State to compare potential losses throughout the State and to determine their priorities for implementing mitigation measures under the strategy, and to prioritize jurisdictions for receiving technical and financial support in developing more detailed local risk and vulnerability assessments.*

Identifying Hazards

Requirement §201.4(c)(2)(i): *[The State risk assessment shall include an] overview of the type ... of all natural hazards that can affect the State ...*

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan provide a description of the type of all natural hazards that can affect the State?	Chapter 4 plus Annex A-M	Plan contains overview of the types of natural hazards – “Hazard Characterization” in each Annex (flood, wildfire, earthquake, volcano, snow avalanche, and tsunami). Plan identifies other hazards to be addresses in the future (e.g. drought, economic)		X
SUMMARY SCORE				X

Profiling Hazards

Requirement §201.4(c)(2)(i): *[The State risk assessment shall include an overview of the] location of all natural hazards that can affect the State, including information on previous occurrences of hazard events, as well as the probability of future hazard events, using maps where appropriate ...*

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the risk assessment identify the location (i.e., geographic area affected) of each natural hazards addressed in the plan?	Hazard Matrix, pg 12.	Hazard matrix provides an overview of location (borough or census area) based on future probability. Most hazard annex include maps and general descriptions of locations of natural hazards.		X
B. Does the plan provide information on previous occurrences of each hazard addressed in the plan?	Hazard Matrix, pg 12. Previous occurrence matrix Appendix 6	Summary information is provided in the hazard annex. The Previous occurrence matrix provides the number of events by area. The matrix must indicate how each “event” is defined. Is each event a state level declaration event, a local level event, or a federal disaster declaration event? The dates and level (extent) of the events is not provided. This information is important to provide an overview of previous occurrences. This information may already be included as part of the Disaster Cost Index in Appendix 6 – this requirement may be a “Satisfactory” score.	X	
C. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?	Hazard Matrix, pg 12.	Plan contains a Hazard Matrix that identified hazard probability for various types of hazards by borough/census area.		X
SUMMARY SCORE			X	

Assessing Vulnerability

Requirement §201.4(c)(2)(ii): *[The State risk assessment **shall** include an] overview and analysis of the State's vulnerability to the hazards described in this paragraph (c)(2), based on estimates provided in local risk assessments as well as the State risk assessment. The State **shall** describe vulnerability in terms of the jurisdictions most threatened by the identified hazards, and most vulnerable to damage and loss associated with hazard events. State owned critical or operated facilities located in the identified hazard areas shall also be addressed*

Assessing Vulnerability by Jurisdiction

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan describe the State's vulnerability based on estimates provided in local risk assessments as well as the State risk assessment?	P. 9-11 and Hazard Matrix.	Plan needs to address how local risk assessments will be used to develop the estimates. The plan includes statements indicating the local risk assessment will be used, but additional information is need on "how" they will be used to support an overview and analysis of state vulnerability.	X	
B. Does the plan describe the State's vulnerability in terms of the jurisdictions most threatened and most vulnerable to damage and loss associated with hazard event(s)?	P. 9-11 and Hazard Matrix	<p>The criteria requires the state to identify the "vulnerability" in terms of jurisdictions most threatened and most vulnerable to damage and loss.</p> <p>The matrix focused on the level of the hazard and not on the vulnerability. If the vulnerability risk and hazard risk are relatively the same for these entities – I recommend re-titling the matrix – "Hazard and Vulnerability Matrix." In order to meet the criteria requirement, add the population of each borough/area to the matrix. This is critical information for determining the state vulnerability in local areas.</p> <p>The plan's Hazard Matrix provides good overview information on the jurisdictions most threatened and each hazard annex provides some information on high risk jurisdictions. There needs to be a narrative analysis regarding the most threatened and most vulnerable based on the overview information.</p>	X	
SUMMARY SCORE			X	

Assessing Vulnerability of State Facilities

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan describe the types of State owned or operated critical facilities located in the identified hazard areas?		Information is not included on the natural hazard risks to state owned critical and operated facilities. The information must also include the identified hazard areas.	X	
SUMMARY SCORE			X	

Estimating Potential Losses

Requirement §201.4(c)(2)(iii): [The State risk assessment **shall** include an] overview and analysis of potential losses to the identified vulnerable structures, based on estimates provided in local risk assessments as well as the State risk assessment. The State **shall** estimate the potential dollar losses to State owned or operated buildings, infrastructure, and critical facilities located in the identified hazard areas.

Estimating Potential Losses by Jurisdiction

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan present an overview and analysis of the potential losses to the identified vulnerable structures?		Overview/analysis of potential losses to identified vulnerable structures.	X	
B. Are the potential losses based on estimates provided in local risk assessments as well as the State risk assessment?		If local risk assessments not yet available, the plan must describe how the plan will perform an overview/analysis of losses to vulnerable structures as local risk assessments are completed.	X	
SUMMARY SCORE			X	

Estimating Potential Losses of State Facilities

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan present an estimate of the potential dollar losses to State owned or operated buildings, infrastructure, and critical facilities in the identified hazard areas?		No information included in plan.	X	
SUMMARY SCORE			X	

MITIGATION STRATEGY: §201.4(c)(3) [To be effective the plan must include a] Mitigation Strategy that provides the State's blueprint for reducing the losses identified in the risk assessment.

Hazard Mitigation Goals

Requirement §201.4(c)(3)(i): [The State mitigation strategy *shall* include a] description of State goals to guide the selection of activities to mitigate and reduce potential losses.

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan provide a description of State mitigation goals that guide the selection of mitigation activities? (GOALS are long-term; represent what the state wants to achieve, such as "eliminate flood damage"; and are based on the risk assessment findings.)	Section 1, p. 1 & in each hazard annex.	The plan identifies four primary goals of hazard mitigation – minimize loss of life/injuries, minimize damage, facilitate restoration of public facilities, and promote economic development. The plan also identifies the general measures the plan will include to address the four primary goals.		X
SUMMARY SCORE				X

State Capability Assessment

Requirement §201.4(c)(3)(ii): [The State mitigation strategy *shall* include a] discussion of the State's pre-and post-disaster hazard management policies, programs, and capabilities to mitigate the hazards in the area, including: an evaluation of State laws, regulations, policies, and programs related to hazard mitigation as well as to development in hazard-prone areas [and] a discussion of State funding capabilities for hazard mitigation projects

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan include an evaluation of the State's pre-disaster hazard management policies, programs, and capabilities?	Annex A-M Existing Programs and Strategies	The Existing Programs and Strategies section provides a brief general description of major programs. The descriptions need to include an evaluation of the various programs. In addition to programs, the plan must include information on state laws, regulations, and policies.	X	
B. Does the plan include an evaluation of the State's post-disaster hazard management policies, programs, and capabilities?			X	
C. Does the plan include an evaluation of the State's policies related to development in hazard prone areas ?		Some information on development in hazard prone areas is interwoven into the document. However, it does not provide a clear assessment of the state capability to address the development in hazard areas. Explain any state or local limitations to addressing development in hazard-prone areas – e.g. due to limited size of government entities or vast areas.	X	
D. Does the plan include a discussion of State funding capabilities for hazard mitigation projects?		Not included in the plan.	X	
SUMMARY SCORE			X	

Local Capability Assessment

Requirement §201.4(c)(3)(ii): *[The State mitigation strategy **shall** include] a general description and analysis of the effectiveness of local mitigation policies, programs, and capabilities.*

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan present a general description of the local mitigation policies, programs, and capabilities?		Not included in plan.	X	
B. Does the plan provide a general analysis of the effectiveness of local mitigation policies, programs, and capabilities?		Not included in plan.	X	
SUMMARY SCORE			X	

Mitigation Actions

Requirement §201.4(c)(3)(iii): *[State plans **shall** include an] identification, evaluation, and prioritization of cost-effective, environmentally sound, and technically feasible mitigation actions and activities the State is considering and an explanation of how each activity contributes to the overall mitigation strategy. This section **should** be linked to local plans, where specific local actions and projects are identified.*

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan identify cost-effective, environmentally sound, and technically feasible mitigation actions and activities the State is considering?	Hazard Annex A-m	???	X	
B. Does the plan evaluate these actions and activities?		The identified mitigation measures are not evaluated. Some evaluation has been performed on the goals.	X	
C. Does the plan prioritize these actions and activities?		Prioritization is provided as High, Medium, and Low Priority. An explanation of whom and how this prioritization was determined are needed.	X	
D. Does the plan explain how each activity contributes to the overall State mitigation strategy?		No.	X	
E. Does the mitigation strategy section reflect actions and projects identified in local plans?		<i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i>		
SUMMARY SCORE				

Funding Sources

Requirement §201.4(c)(3)(iv): *[The State mitigation strategy **shall** include an] identification of current and potential sources of Federal, State, local, or private funding to implement mitigation activities.*

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan identify current sources of Federal, State, local, or private funding to implement mitigation activities?		No. Current funding sources must be included.	X	
B. Does the plan identify potential sources of Federal, State, local, or private funding to implement mitigation activities?		No. Current funding sources must be included.	X	
SUMMARY SCORE				

COORDINATION OF LOCAL MITIGATION PLANNING

Local Funding and Technical Assistance

Requirement §201.4(c)(4)(i): *[The section on the Coordination of Local Mitigation Planning **must** include a] description of the State process to support, through funding and technical assistance, the development of local mitigation plans.*

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan provide a description of the State process to support, through funding and technical assistance, the development of local mitigation plans?	Page 8 -9 Section 2, Local planning	Funding through HMGP and PDM included. Technical assistance is briefing summarizes. A more thorough description of the state process to support plans through technical assistance is needed. Recommend reviewing quarterly PDM State planning grant performance reports for information that may be adapted to describe state process. Include technical assistance to planning process provided by other state agencies.	X	
SUMMARY SCORE			X	

Local Plan Integration

Requirement §201.4(c)(4)(ii): [The section on the Coordination of Local Mitigation Planning **must** include a] description of the State process and timeframe by which the local plans will be reviewed, coordinated, and linked to the State Mitigation Plan.

Element	Location	Reviewer's Comments	SCORE	
			N	S
A. Does the plan provide a description of the process and timeframe the State established to review local plans?	Included a second Planning Flow Chart for Local planning. Add appendix explaining the review process	The flow chart needs more detail on the state review process of local plans to meet the criteria. Currently, there is only one box on the state review process. For example, does the state do any preliminary or draft reviews, pre-adoption reviews, who are the reviewers (SHMO, program specialists, other state EM staff)? How are review comments coordinated back to the community? Alternatively to adding to the flow chart, the information can be provided in a narrative description in the section.	X	
B. Does the plan provide a description of the process and timeframe the State established to coordinate and link local plans to the State Mitigation Plan?	Flow chart. Page 9-10 Add appendix explaining the review process	Information on process established to coordinate and link local plans to the State Mitigation Plan is limited. For example, one box in flow chart that indicates "link to state plan" and brief mention of V-Risk. More information is needed to describe the intended process.	X	
SUMMARY SCORE			X	

Prioritizing Local Assistance

Requirement §201.4(c)(4)(iii): *[The section on the Coordination of Local Mitigation Planning **must** include] criteria for prioritizing communities and local jurisdictions that would receive planning and project grants under available funding programs, which **should** include consideration for communities with the highest risks, repetitive loss properties, and most intense development pressures.*

*Further, that for non-planning grants, a principal criterion for prioritizing grants **shall** be the extent to which benefits are maximized according to a cost benefit review of proposed projects and their associated costs.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan provide a description of the criteria for prioritizing those communities and local jurisdictions that would receive planning and project grants under available mitigation funding programs?		No prioritization process for local assistance included.	X	
B. Did the prioritization criteria include, for non-planning grants, the consideration of the extent to which benefits are maximized according to a cost benefit review of proposed projects and their associated cost?		No information on the cost benefit review of proposed projects.	X	
C. Do the criteria include considerations for communities with the highest risk?		<i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i>		
D. Do the criteria include considerations for repetitive loss properties?		<i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i>		
E. Do the criteria include considerations for communities with the most intense development pressures?		<i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i>		
SUMMARY SCORE				

PLAN MAINTENANCE PROCESS

Monitoring, Evaluating, and Updating the Plan

Requirement §201.4(c)(5)(i): [The Standard State Plan Maintenance Process **must** include an] established method and schedule for monitoring, evaluating, and updating the plan.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan describe the method and schedule for monitoring the plan? (e.g., identifies the party responsible for monitoring , includes schedule for reports, site visits, phone calls, and/or meetings)	Added a planning flowchart in Section 2	Plan does not information the information.	X	
B. Does the plan describe the method and schedule for evaluating the plan? (e.g., identifies the party responsible for evaluating the plan, includes the criteria used to evaluate the plan)	Added a planning flowchart in Section 2	Plan does not information the information.	X	
C. Does the plan describe the method and schedule for updating the plan?	Added a planning flowchart in Section 2	Plan does not information the information.	X	
SUMMARY SCORE			X	

Monitoring Progress of Mitigation Activities

Requirement §201.4(c)(5)(ii): [The Standard State Plan Maintenance Process **must** include a] system for monitoring implementation of mitigation measures and project closeouts.

Requirement §201.4(c)(5)(iii): [The Standard State Plan Maintenance Process **must** include a] system for reviewing progress on achieving goals as well as activities and projects in the Mitigation Strategy.

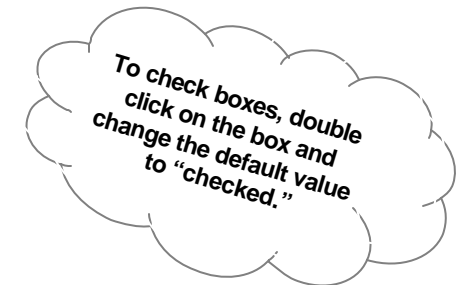
Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan describe how mitigation measures and project closeouts will be monitored?		Plan does not include information on monitoring of selected information.	X	
B. Does the plan identify a system for reviewing progress on achieving goals in the Mitigation Strategy?	Appendix 18	Plan does not include a system for reviewing progress on achieving goals as well as activities and projects in the Mitigation Strategy.	X	
C. Does the plan identify a system for reviewing progress on implementing activities and projects of the Mitigation Strategy?		Plan does not include a system for reviewing progress on implementing activities and projects of the Mitigation Strategy.	X	
SUMMARY SCORE			X	

Matrix A: Profiling Hazards

This matrix can assist FEMA in scoring each hazard. States may find the matrix useful to ensure that their plan addresses each natural hazard that can affect the State. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.4(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

Hazard Type	Hazards Identified Per Requirement §201.4(c)(2)(i)	A. Location		B. Previous Occurrences		C. Probability of Future Events	
	Yes	N	S	N	S	N	S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Legend:**

§201.4(c)(2)(i) Profiling Hazards

A. Does the risk assessment identify the location (i.e., geographic area affected) of each natural hazard addressed in the plan?

B. Does the plan provide information on previous occurrences of each hazard addressed in the plan?

C. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?

Matrix B: Assessing Vulnerability

This matrix can assist FEMA in scoring each hazard. States may find the matrix useful to ensure that their plan addresses each requirement. Note that this matrix only includes items for Requirements §201.4(c)(2)(ii) and §201.4(c)(2)(iii) that are related to specific natural hazards that can affect the State. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.4(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

Hazard Type	Hazards Identified Per Requirement §201.4(c)(2)(i)	1. Vulnerability by Jurisdiction		2. Vulnerability to State Facilities		3. Loss Estimate by Jurisdiction		4. Loss Estimate of State Facilities	
	Yes	N	S	N	S	N	S	N	S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

To check boxes, double click on the box and change the default value to “checked.”

Legend

§201.4(c)(2)(ii) Assessing Vulnerability by Jurisdiction (see element B)

1. Does the plan describe the State's vulnerability in terms of the jurisdictions most threatened and most vulnerable to damage and loss associated with hazard event(s)?

§201.4(c)(2)(ii) Assessing Vulnerability to State Facilities (see element A)

2. Does the plan describe the types of State owned or operated critical facilities located in the identified hazard areas?

§201.4(c)(2)(iii) Estimating Potential Losses by Jurisdiction (see element A)

3. Does the plan present an overview and analysis of the potential losses to the identified vulnerable structures?

§201.4(c)(2)(iii) Estimating Potential Losses of State Facilities (see element A)

4. Does the plan present an estimate of the potential dollar losses to State owned or operated buildings, infrastructure, and critical facilities in the identified hazard areas?